

L# ANSWER 113 OF 419 CAPLUS COPYRIGHT 2002 ACS

AN 1995:997568 CAPLUS

DN 124:145893

TI Improved process for producing N-methylpyrrolidone and 2-pyrrolidone

IN Yang, Yuanyi; Xu, Liying; Zhu, Yunxian

PA Beijing Chemical Industry Institute, Ministry of Chemical Industry, Peop.  
Rep. China

SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.

CODEN: CNXXEV

PATENT NO.      KIND      DATE      APPLICATION NO.      DATE

-----  
PI CN 1104635      A      19950705      CN 1993-121036      19931227  
CN 1043758      B      19990623

AB N-methylpyrrolidone (I) and 2-pyrrolidone are prepd. in high yields by  
condensation of .gamma.-butyrolactone (II) with MeNH<sub>2</sub> and NH<sub>3</sub>, resp., at  
220-290.degree. and .gtoreq.6 MPa. A mixt. of 1:1.4:5.6 II/30% MeNH<sub>2</sub>/H<sub>2</sub>O  
was heated at 280.degree./6 MPa to give 97% I of 99.5% purity with 100%  
conversion, vs. 91% yield with a ref. process.

IC ICM C07D209-24

DT Patent

LA Chinese